## Page Avenue (Route 364) Phase III USER BENEFITS SUMMARY

Total Construction Costs (All Years)	\$ 105,000,000	
Annual Maintenance Costs	\$ 140,400	(\$2,600 per lane mile * 9 miles * 6 lanes)

\$

## **Travel Time Savings Calculator**

	VHT Savi	ngs (Hours per	VHT Savings (Hours		o-All Purpose \$	Auto-Business \$				
		Day)	per Year)	S	avings (Year)	Savings (Year)	Truck \$ Savings (Year)		Total \$ Savings (Yea	
Travel Time Savings (2015)		6,367	2,323,955	\$	38,296,199	\$ -	\$	9,951,640	\$	48,247,839
Travel Time Savings (2030)		19,168	6,996,320	\$	115,291,588	\$ -	\$	29,959,642	\$	145,251,229
Auto-All Purpose Trips % 81.7% Source: EWG Travel Demand Model Output										
Commercial Truck Trip % 18.3% Source: EWG Travel Demand Model Output										
All Purpose Auto Value of Time	\$ 20.17 Source: USDOT guidance of Valuation of Time in Economic Analysis, updated from 2000\$ to 2008\$									to 2008\$
Commerical Truck Value of Time \$ 23.40 Source: USDOT guidance of Valuation of Time in Economic Analysis, updated from 2000\$ to 2									to 2008\$	

## **Vehicle Operating Cost Savings Calculator**

	VMT Savings (Miles per	VMT Savings (Miler	Auto \$ Savings	Truck \$ Savings						
	Day)	per Year)	(Year)	(Year)	Total \$ Savings (Year)					
Vehicle Operating Cost Savings (2015)	(56,444)	(20,602,060)	\$ (3,110,087)	\$ (899,898	(4,009,985)					
Vehicle Operating Cost Savings (2030)	(67,594)	(24,671,810)	\$ (3,724,456)	\$ (1,077,665	(4,802,121)					
Truck Percentage	11.2%	11.2% Source: EWG Travel Demand Model Output-VMT								
Auto Percentage	88.8% Source: EWG Travel Demand Model Output-VMT 65% Assumes negative 35% adjustment in number of trucks traveling due to use of LCV's									
LCV Adjustment										
VOC-Auto	\$ 0.17 Source: AAA 2009\$ Estimated costs to operate passenger vehicles, excludes insurance, registration costs, assumes fuel costs included									
VOC-Trucks	\$ 0.60 Souce: AAA 2009\$ Per-Mile Costs of Operating Trucks and Automobiles, MNDOT									

6,000,000 FHWA Guidance on Value of Statisical Life, Fatal Severity of Injury Crash

## **Crash Cost Savings Calculations**

Fatal Accident Value

			Minor Injury	Major Injury					То	tal Minor	То	tal Major				
	PDO Cras	shes Saved	Accidents Saved	Crashed Saved	Fatal Accidents	Total Accidents Saved	Total PDO \$ Saved		Injury \$ Saved		Injury \$ Saved		Total Fatal \$		Total	\$ Savings
	(Yea		(Year)	(Year)	Saved (Year)	(Year)	(Year)		(Year)		(Year)		Savings (Year)		(Year)	
Accident Cost Savings (2015)	3	9.0	4.0	0.3	0.3	43.7	\$	159,959	\$	374,266	\$	116,096	\$	1,966,325	\$	2,616,646
Accident Cost Savings (2030)	3	8.8	-1.0	-0.5	0.4	37.7	\$	158,879	\$	(96,962)	\$	(162,206)	\$	2,510,509	\$	2,410,219
PDO Crash Value	\$ 4,100 MoDOT Guidance, updated to 2009\$															
Minor Injury Crash Value	\$	93,000	3,000 FHWA Guidance on Value of Statisical Life, Moderate Severity of Injury Crash 5,000 FHWA Guidance on Value of Statisical Life, Sevree Severity of Injury Crash													
Major Injury Crash Value	\$	345,000														